

Name - Md. Sazzad Khan, I'd - 22-49172-3, Signature -  
MSKhan

3. Function : Return total number of books.

→ Create OR Replace Function total-books  
Return Number Is

book-count Number;

Begin

select Count(\*) INTO book-count from book;

Return book-count;

END;

/

4. Procedure: update edition from 10 to 20.

→ Create OR Replace Procedure update-edition  
Is

Begin

Update book

Set edition = '20'

Where edition = '10';

Commit;

DBMS\_OUTPUT.PUT\_LINE (SQL%ROWCOUNT || 'row(s)  
updated (edition 10 -> 20).');

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Exception

When Others then

Rollback;

DBMS-OUTPUT.PUT\_LINE ('Error: ' || SQLERRM);

END;

/

5. Record : Output the name of the book whose id is 111.

→ Declare

rc-book BOOK%Rowtype;

Begin

select \* Into rc-book

From book

Where b-id = 111

AND ROWNUM = 1;

~~DBMS~~ DBMS-OUTPUT.PUT\_LINE ('Book name for  
id 111 : ' || rc-book.b-name);

Exception

When NO-DATA-FOUND Then

DBMS-OUTPUT.PUT\_LINE ('NO book found');

END;

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6. Record that output the name of all books

→ Declare

Cursor c-books Is Select \* From book;

ℓ-book book% Rowtype;

Begin

Open c-books;

Loop

FETCH c-books into ℓ-book;

EXIT When c-books % NOT FOUND;

DBMS\_OUTPUT.PUT\_LINE ('Book Name ' ||  
ℓ-book.b\_name);

END Loop;

Close c-books;

END;

/

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7. Cursor : Output Id and Name of all categories

→ Declare

Cursor c-cat Is

Select c-id, c-name From category;  
id category.c-id %Type;

name category.c-name %Type;

Begin

Open c-cat;

Loop

~~FETCH~~ FETCH c-cat Into id, name;

EXIT When c-cat % NOTFOUND;

DBMS-OUTPUT.PUT\_LINE ('Category ID ' || id ||  
' Name ' || name);

END Loop;

Close c-cat;

END;

/

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8. Trigger: Insert to category output "New Category Added".

→ Create OR Replace Trigger category-insert  
After Insert on category  
For each Row

Begin

```
DBMS_OUTPUT.PUT_LINE('New Category Added');  
END;  
/
```

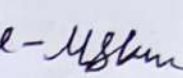
9. Trigger: Delete from category output "A Category Deleted".

→ Create OR Replace Trigger category-delete  
After Delete ON category

For Each Row

Begin

```
DBMS_OUTPUT.PUT_LINE('A Category Deleted');  
END;  
/
```

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10. Package : contains a procedure to display book name by id

### Package Specification

```
Create OR Replace Package book-pkg IS  
  Procedure show-book-name (p-b-id NUMBER);  
END book-pkg;  
/
```

### Package Body

```
Create OR Replace Package Body book-pkg IS  
  Procedure show-book-name (p-b-id Number) IS  
    name book.b_name %type;
```

```
Begin
```

```
  Select b_name Into name From book
```

```
  Where b-id = p-b-id
```

```
  AND ROWNUM = 1;
```

```
DBMS-OUTPUT.PUT_LINE ('Book Name ' || name);
```

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Exception

When NO\_DATA\_FOUND then

DBMS\_OUTPUT.PUT\_LINE ('NO book found ');

END show-book-name;

END book-pkg;

/